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Spiritute for (997) INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known 10/656,091 Application Number Filing Date September 5, 2003 First Named Inventor Thomas L. Beck Art Unit 2863 Michael P. Nghiem Examiner Name

(Use as many sheets as necessary)

Sheet of Attorney Docket Number

			U.S. PATENT	DOCUMENTS	
Evaminer	xaminer Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan
Initials *	No.	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Cled Cocument	Passages or Relevant Figures Appear
da	AA	US- 3,343,409	09/26/1967	Gibbs	
$\sim$	AB	US- 3,585,484	06/15/1971	Dortort	
$\neg \vdash$	AC	US- 3,851,995	12/03/1974	Mills	
	AD	US- 3,854,846	12/17/1974	Douglas	
$\neg$	AE	US- 3,915,225	10/28/1975	Swink	
	AF	US-3,918,843	11/11/1975	Douglas et al.	
T	AG	US- 3,930,752	01/06/1976	Douglas	
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1	AM	US- 3,998,568	12/21/1976	Hynd	
1	AN	US- 4,058,757	11/15/1977	Welton et al.	
$\top$	AO	US- 4,102,394	07/25/1978	Botts	·
	AP	US 4,118,148	10/03/1978	Allen	
_/	AQ	US- 4,145,161	03/20/1979	Skinner	
	AR	US- 4,171,185	10/16/1979	Duke et al.	
	AS	US- 4,194,393	03/25/1980	Boley	
un	AT	US- 4,220,440	09/02/1980	Taylor et al.	

		FOREIGN PA	TENT DOCU	MENTS		
Examiner Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant	_	
Initials*		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>8</sup> (# known)	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T <sup>©</sup>
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	VΧ	nd	MU	<u> </u>	1 1/7	11/	<i>(</i> <sup>1</sup> / <sub>2</sub> )	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation dumber (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language

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Substitute for form 1449B/PTO Complete if Known Application Number 10/656,091 INFORMATION DISCLOSURE 09/05/2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Thomas L. Beck Art Unit 2863 (Use as many sheets as necessary) Examiner Name Michael P. Nghiem Sheet Attorney Docket Number 7855

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Examiner Cite No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
$\mathbb{Z}$	1	GIBBS, S.C.: "Predicting the Behavior of Sucker-Rod Pumping Systems", JPT (July 1963, 769-78, Trans, AIME 228).			
1	2	GARLOW, M.E.: Sensorless Estimation of a Sucker-Rod Pump Downhold Dynacard*, Unico, Inc., August 12, 2002.			
	3	EVERITT, T.A, and JENNINGS, J.W.: An Improved Finite-Difference Calculation of Downhold Dynamometer Cards for Sucker-Rod Pumps", Paper SPE 18189, SPE Production Engineering (February 1992).			
	4	JANSEN, P.L. and LORENZ, R.D.: Accurary Limitations of Velocity and Flux Estimation in Direct Field Oriented Induction Machines*, Power Electronics and Applications, 1993, Fifth European Conference on , 1993; 312-318, Vol. 4.			
	5	LORENZ, R.D. and LAWSON, D.B.: A Simplified Approach to Continuous On-Line Tuning of Field-Oriented Induction Machine Drives*, IEEE Transactions on Industry Applications, Vol. 26, No. 3, May/June 1990.			
W	6	HASAN, A.R. and KABIR, C.S.: Fluid Flow and Heat Transfer in Wellbores*, Society of Petroleum Engineers, Richardson, TX, 2002.			
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Examiner Signature		Indew	Date Considered	10) W/OX
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance

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Substitute for form 1449A/PTO Complete if Known Application Number 10/656,091 INFORMATION DISCLOSURE September 5, 2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Thomas L. Beck 2863 Art Unit (Use as many sheets as necessary) Michael P. Nghiem Examiner Name 7855 Sheet Attorney Docket Number

			U.S. PATENT	DOCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan
Initials *	No.	Number - Kind Code <sup>2</sup> (if known)	MM-OD-YYYY	Cited Cocument	Passages or Relevant Figures Appear
the	AU	US 4,286,925	09/01/1981	Standish	
,	AV	US 4,363,605	12/14/1982	Mills	
$\top$	AW	US 4,390,321	06/28/1983	Langlois et al.	
	AX	US 4,408,122	09/27/1983	McDuffie	
	AY	US 4,438,628	03/27/1984	Creamer	
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	BB	US 4,480,960	11/06/1984	Streib	
	BC	US 4,483,188	11/20/1984	McTamaney et al.	
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	8F	US 4,507,055	03/26/1985	Fair et al.	
	BG	US 4,508,487	04/02/1985	Taylor et al.	
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	ВМ	US 4,583,915	04/22/1986	Montgomery et al.	
w	BN	US 4,594,665	06/10/1986	Chandra et al.	

		FOREIGN PA	TENT DOCU	MENTS		
Examiner Cite No.	Cit-	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
	No.1	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T <sup>®</sup> ∵
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Date Examiner Considered \*EXAMINER: Initial if reference considered, whether or no citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO Complete if Known 10/656,091 Application Number INFORMATION DISCLOSURE September 5, 2003 Filing Date STATEMENT BY APPLICANT First Named Inventor Thomas L. Beck 2863 Art Unit (Use as many sheets as necessary) Michael P. Nghiem Examiner Name Sheet of 6 Attorney Docket Number 7855

		<del>,                                     </del>	U.S. PATENT		
Examiner Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan	
Initials *	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Grad bookings	Passages or Relevant Figures Appear
In	ВО	US 4,631,954	12/30/988	Mills	
V	BP	US 4,661,751	04/28/1987	Wemer	
	BQ	US 4,681,167	07/21/1987	Soderberg	
7	BR	US 4,695,779	09/22/1987	Yates	
	BS	US 4,741,397	05/03/1988	Weeks	
	BT	US 4,747,451	05/21/1988	Adams Jr. et al.	
T	BU	US 4,830,112	05/16/1989	Erickson	
	BV	US 4,859,151	08/22/1989	Reed	
	BW	US 4,873,635	10/10/1989	Mills	
	BX	US 4,935,685	06/19/1990	Justus et al.	
	BY	US 4,971,522	11/20/1990	Butlin	
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	CA	US 5,006,044	04/09/1991	Walker Sr. et al.	
	CB	US 5,044,888	09/03/1991	Hester II	
	CC	US 5,064,349	11/12/1991	Turner et al.	
	CD	US 5,129,267	07/14/1992	Nicholls	
	CE	US 5,167,490	12/01/1992	McKee et al.	
$\top$	CF	US 5,180,289	01/19/1993	Wenholz et al.	
1	CG	US 5,204,595	04/20/1993	Opal et al.	
w	СН	US 5,222,867	06/29/1993	Walker Sr. et al.	

		FOREIGN PA	TENT DOCU	MENTS		
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			U.S. PATENT		
Examiner Cit	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan
Initials *	No.1	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Cited becomen	Passages or Relevant Figures Appear
71	CI	US 5,224,834	07/06/1993	Westerman et al.	
<del></del>	CJ	US 5,230,607	07/27/1993	Mann	
$\neg$	СК	US 5,237,863	08/24/1993	Dunham	
$\neg$	CL	US 5,246,076	09/21/1993	Watson	
	CM	US 5,251,696	10/12/1993	Boone et al.	
$\neg$	CN	US 5,252,031	10/12/1953	Gibbs	
	co	US 5,281,100	01/25/1994	Diederich	
	CP	US 5,284,422	02/08/1994	Turner et al.	
	CQ	US 5,316,085	05/31/1994	Dawson	
	CR	US 5,318,409	06/07/1994	London et al.	
	CS	US 5,362,206	11/08/1994	Westerman et al.	
	СТ	US 5,372,482	12/13/1994	London et al.	
	CU	US 5,425,623	06/20/1995	London et al.	
1	CV	US 5,441,389	08/15/1995	Wolcott et al.	
1	cw	US 5,444,609	08/22/1995	Swamy et al.	
	СХ	US 5,458,466	10/17/1995	Mills	
1	CY	US 5,634,522	06/03/1997	Hershberger	
1	CZ	US 5,819,849	10/13/1998	Booth	
A .	DA	US 5,823,262	10/20/1998	Dutton	
1/~	DB	5,829,530	11/03/1998	Noten	

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Substitute	e for form 1449A/PTC	)			Complete if Known
				Application Number	10/656,091
INFO	RMATION	DIS	CLOSURE	Filing Date	September 5, 2003
STAT	STATEMENT BY APPLICANT			First Named Inventor	Thomas L. Beck
				Art Unit	2863
(Use as many sheets as necessary)			necessary)	Examiner Name	Michael P. Nghiem
Sheet	6	of	6	Attorney Docket Number	7855

	,	1	U.S. PATENT			
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan	
Initials *	tials ' No.'	Number - Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		Passages or Relevant Figures Appear	
In.	DC	US 5,868,029	02/09/1999	Paine		
7	DD	US 5,941,305	08/24/1999	Thrasher et al.		
(	DE	US 5,996,691	12/07/1999	Nomis et al.		
1	DF	US 6,041,856	03/28/2000	Thrasher et al.		
	DG	US 6,043,569	03/28/2000	Ferguson		
	DH	US 6,079,491	08/27/2000	Stuebinger et al.		
1	DI	US 6,092,600	07/25/2000	McKinzie et al.		
	DJ	US 6,127,743	10/03/2000	Levin et al.		
	DK	US 6,129,110	10/10/2000	Kolb		
	DL	US 6,155,347	12/05/2000	Mills		
	DM	US 6,176,682	01/23/2061	Mills		
	DN	US 6,464,464	10/15/2002	Sabini et al.		
	DO	US 6,585,041	07/01/2003	Crossley		
$\omega$	DP	US 5,129,264	07/14/1992	Lorenc		

	FOREIGN PATENT DOCUMENTS					
Examiner Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines, Where Relevant		
Initials*		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> ( <i>if known</i> )	Date MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T°
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